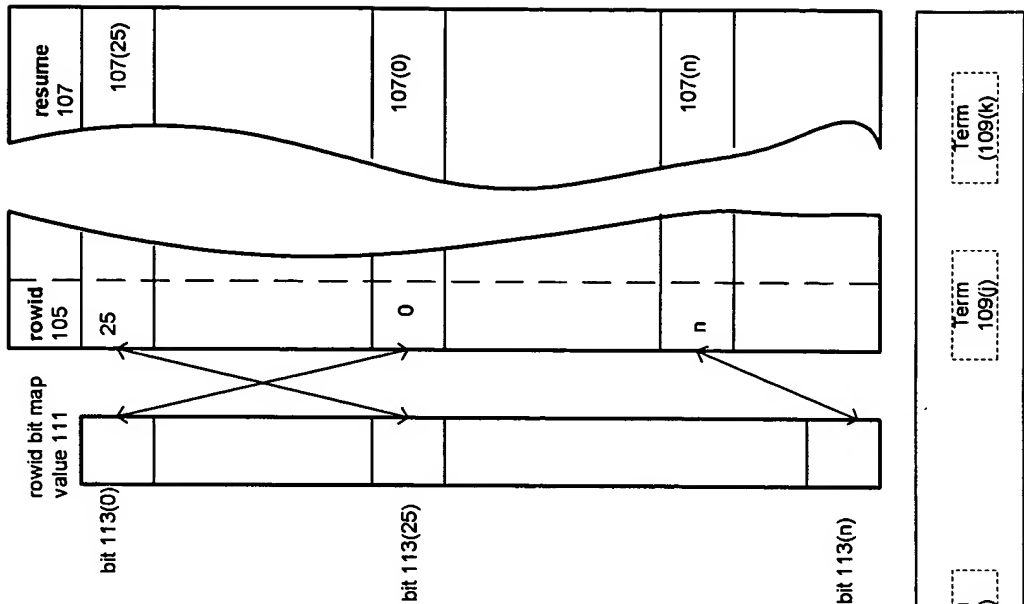


resume index table 115

search term 119	term index 121		
	105(e) 105(h) 105(i)		
119(x) = term 109(i): "Massachusetts Institute of Technology"	<table><tr><td>111(x)</td></tr><tr><td>105(e) 105(j)</td></tr></table>	111(x)	105(e) 105(j)
111(x)			
105(e) 105(j)			
119(y) = term 109(j): 'PL/SQL'	<table><tr><td>111(y)</td></tr><tr><td>105(e) 105(j)</td></tr></table>	111(y)	105(e) 105(j)
111(y)			
105(e) 105(j)			
119(z) = term 109(k)			

resume table 103



resume field 107(h)

Fig. 1

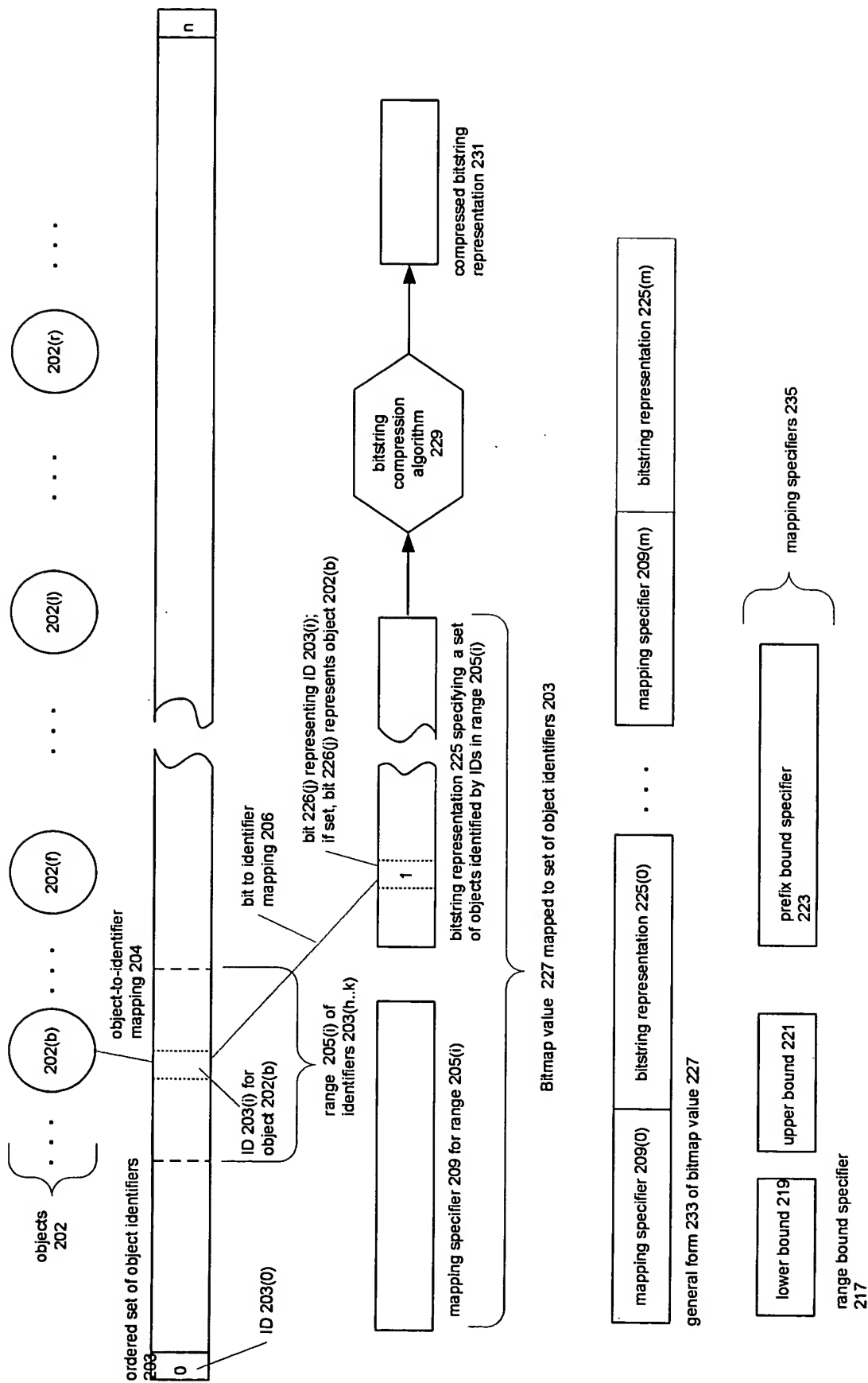


Fig. 2

Bitmap values mapped onto identifier range 20-29:

Mapping specifier: 20-29 Bitstring: $\begin{matrix} 20 & & 29 \\ & \text{XXXXXXXXX} & \\ 0 & & 9 \end{matrix}$

Bitmap value bitmapval_1 $\begin{matrix} & 22 & & 27 \\ 20-29: & 0010000100 & \\ & 2 & & 7 \end{matrix}$

bitmap-to-set operation

bitmap_to_set(bitmapval_1)

result

{object_id(22), object_id(27)}

set-to-bitmap operation

bitmapval_2 := set_to_bitmap({object_id(20), object_id(22),
object_id(24)})

result

bitmapval_2 = 20-24:10101

bitmap-to-count operation

intval := bitmap_to_count(bitmapval_1)

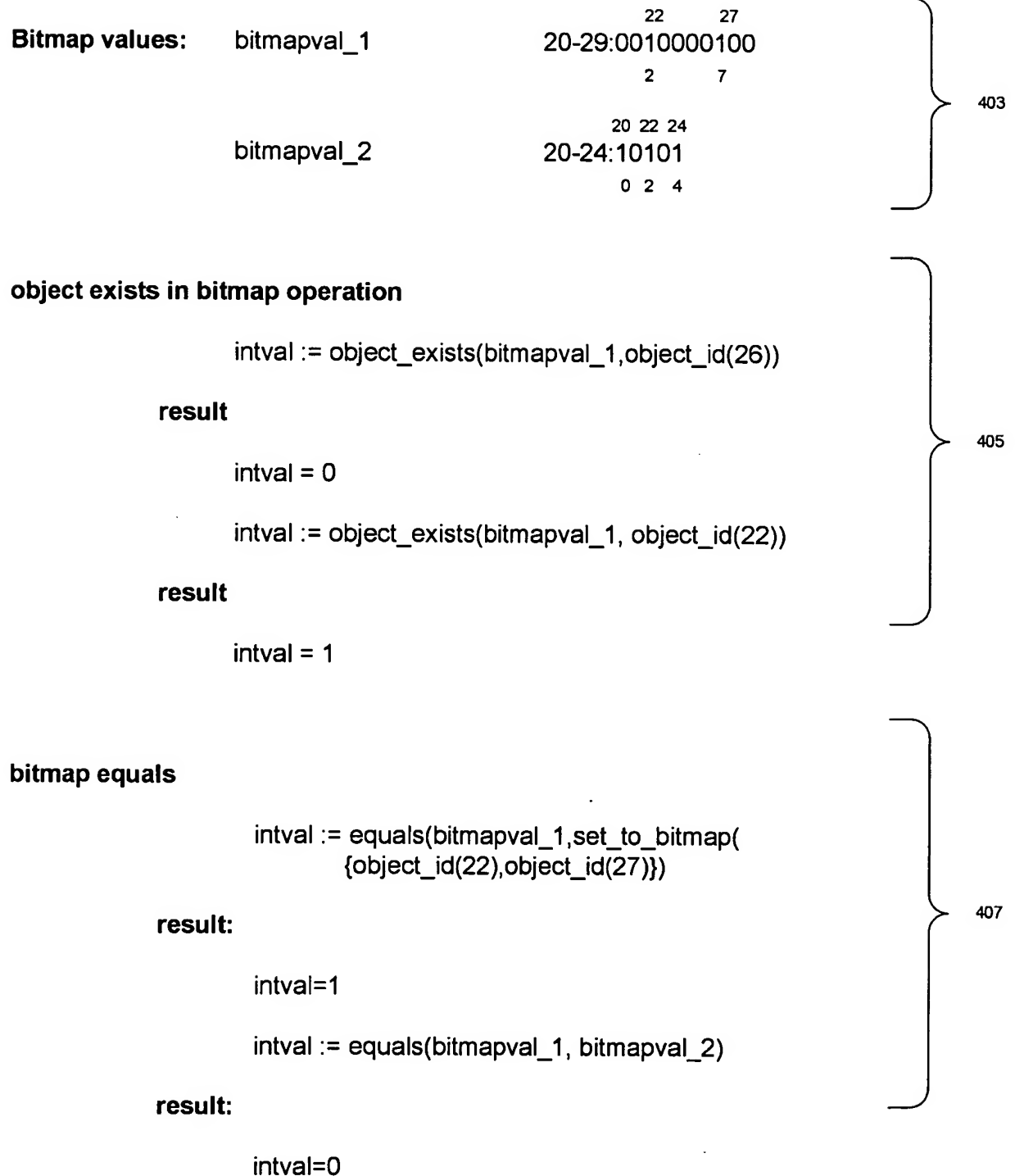
result

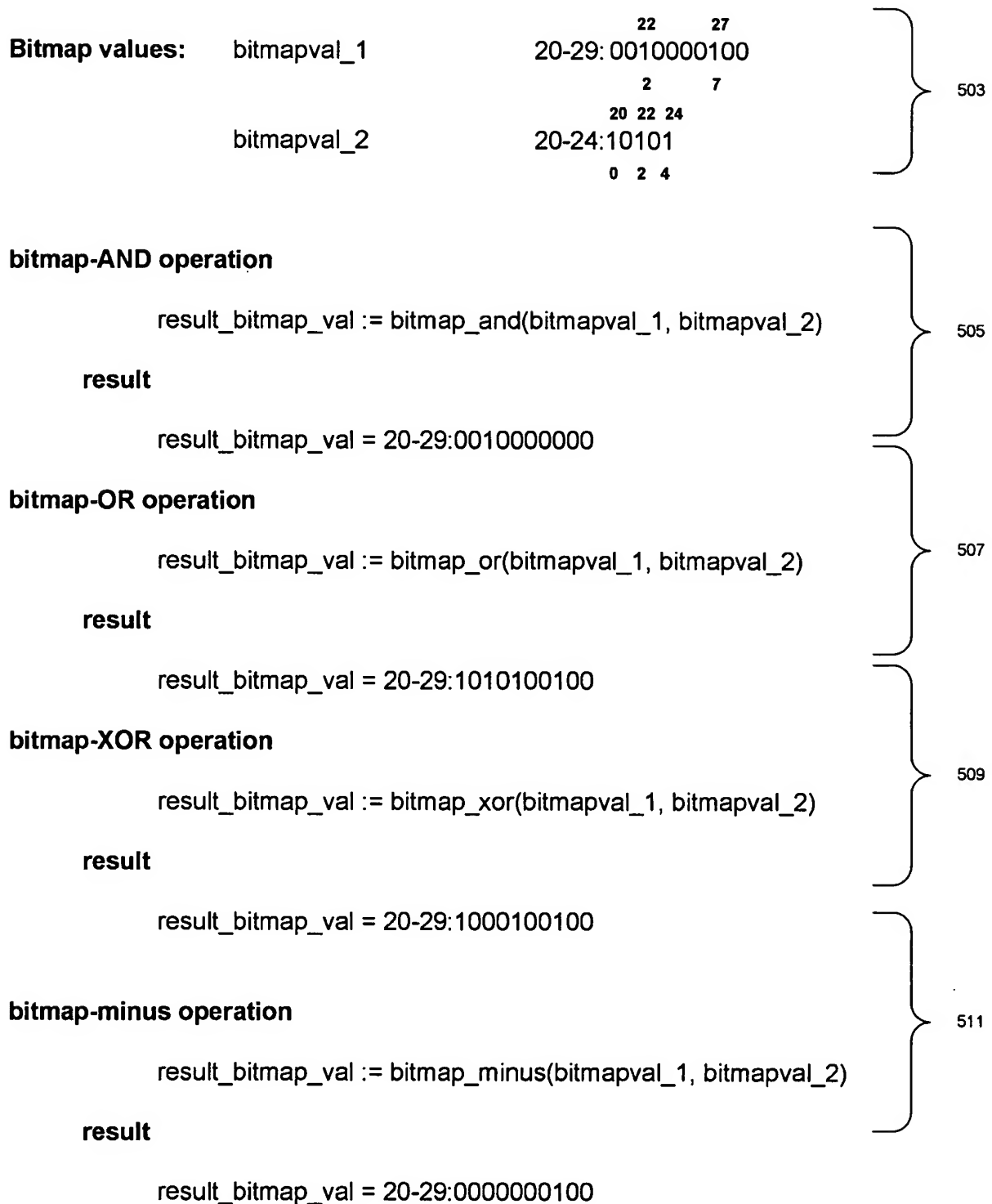
intval = 2

intval := bitmap_to_count(bitmapval_2)

result

intval = 3



Fig. 5

Bitmap value: bitmapval_1

²² ²⁷
0010000100
₂ ₇

} 603

bitmap-insert operation

bitmap_insert(bitmapval_1, {object_id(28), object_id(33)})

result

²² ²⁷28 ³³
bitmapval_1 = 20-33:00100001100001
₂ ₇ 8 ₁₃

} 605

bitmap-delete operation

bitmap_delete(bitmapval_1, {object_id(27), object_id(28)})

result

²² ²⁷
bitmapval_1 = 20-29:0010000000
₂ ₇

} 607

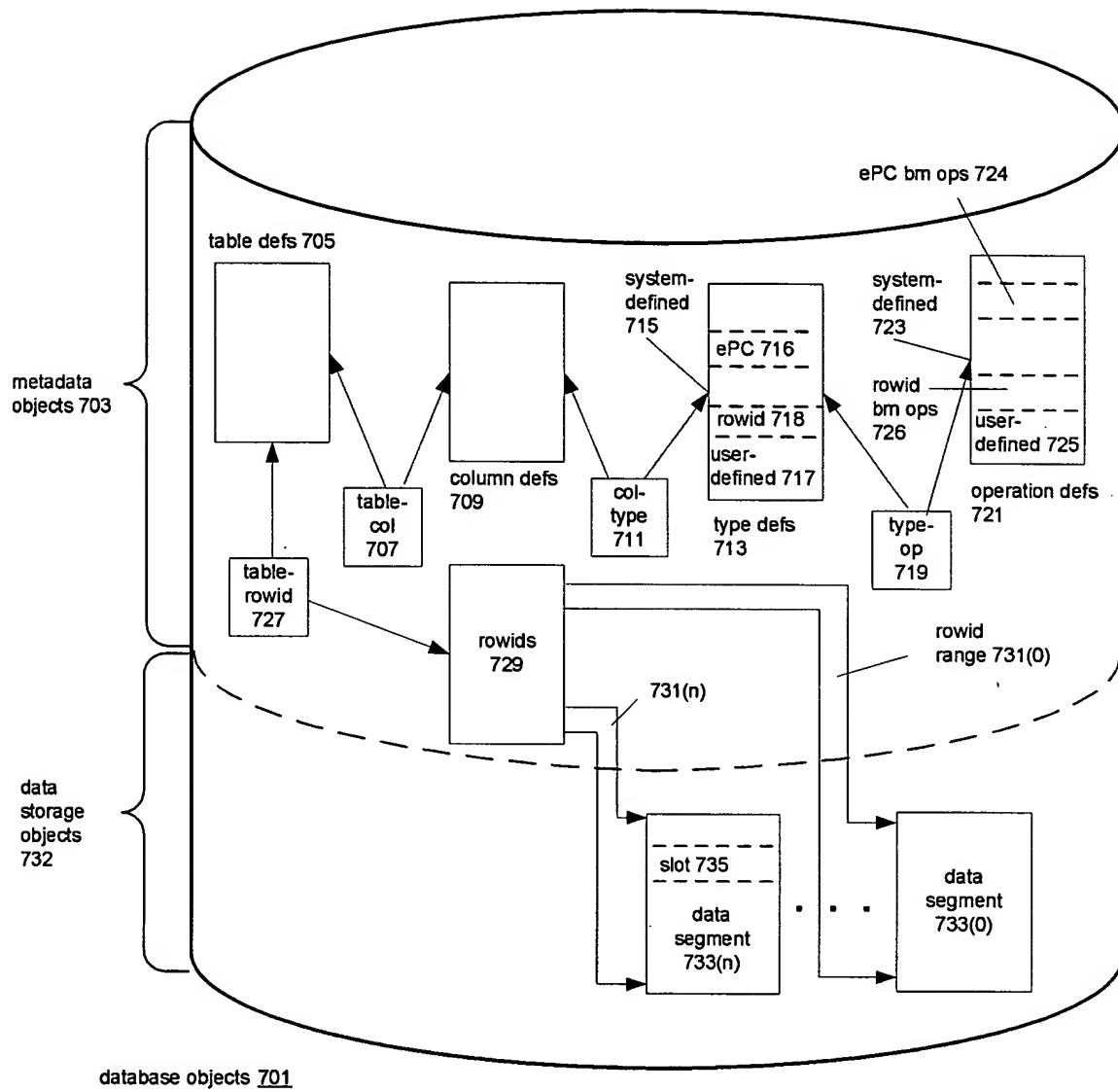


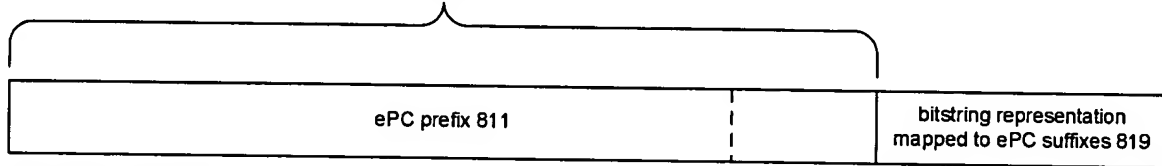
Fig. 7

8/10

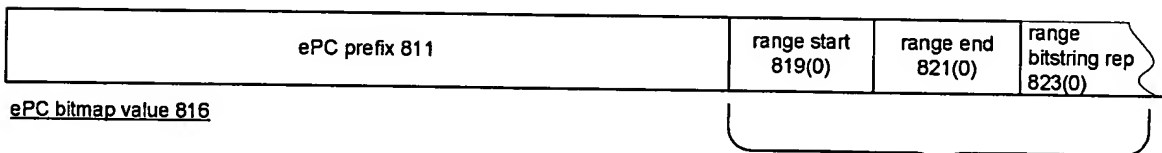
	Header 803	General Manager Number 805	Object Class 807	Serial Number 809
GID-96	8	28	24	36 suffix length 810
	0011 0101 (Binary value)	268,435,456 (Decimal capacity)	16,777,216 (Decimal capacity)	68,719,476,736 (Decimal capacity)

801

mapping specifier prefix 817



ePC bitmap value 815



ePC bitmap value 816

range and bitstring
sequence 825

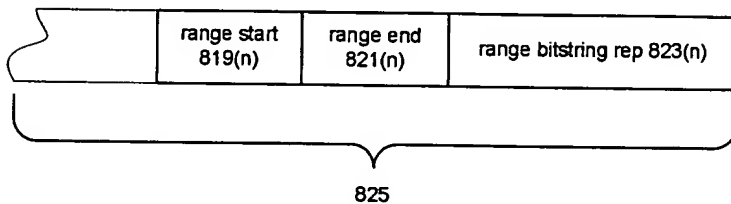


Fig. 8

<AggregationEvent>
 <EventId>00001111222233334444555520021106130434</EventId>
 <ParentId>000011112222333344445555</ParentId>
 <ChildId>AAAABBBBCCCCDDDD77771111</ChildId>
 .
 .
 .
 <ChildId>AAAABBBBCCCCDDDD77773333</ChildId>
 <Timestamp>2002-11-06T13:04:34-06:00</Timestamp>
 </AggregationEvent>

903 points to <EventId>
 905 points to <ChildId>
 ePC list 907 is indicated by a bracket grouping the ChildId elements.
 event message 901 is indicated by a bracket grouping the entire <AggregationEvent> block.
 909 points to <Timestamp>

<AggregationEvent>
 <EventId>00001111222233334444555520021106130434</EventId>
 <ParentId>000011112222333344445555</ParentId>
 <ChildIdBitmap>ePC_bitmap_value</ChildIdBitMap>
 <Timestamp>2002-11-06T13:04:34-06:00</Timestamp>
 </AggregationEvent>

event message 911 is indicated by a bracket grouping the entire <AggregationEvent> block.
 ePC bitmap value list 913 points to <ChildIdBitmap>

917	919	921	923
Container ePC	Product ePC prefix	Time checked	Item suffix bitmap
ePC val(a)	ePC prefixval(a)	Time val(a)	ePC bitmapval(a)
ePC val(b)	ePC prefixval(b)	Time val(b)	ePC bitmapval(b)

InventoryTable 915

Fig. 9

data object # 1005	datafile # 1007	data block # 1009	row # 1011
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rowid 1003

rowid range start 1023(a)	rowid range end 1025(a)	range bitstring representation 1027(a)	...
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mapping specifier 1021(a)

1013(n)	1025(n)	1027(n)
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rowid bitmap value 1019

Fig. 10